



PHYSICS >> Electronics

Q 1

Full wave rectifier uses

A

one diode

B

two diode

C

three diodes

D

Four diodes

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Q 2

The _____ reaction is an example of renewable source of energy

A

fission

B

fusion

C

both a and b

D

none of these

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Q 3

Platinum wire becomes yellow at a temperature of _____ degree C.

A

900

B

500

C

1300

D

1600

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Q 4

Which of the following statements about wave motion is true:

A

waves transport energy and matter

B

waves transport energy without transporting matter

C

waves transport matter but not energy

D

waves on a rope, radio waves, infra red

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Q 5

The relation which explains mass and wavelength are inversely related is called

A

Maxwell

B

De Broglie

C

Einstein

D

none of these

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Q 6

The value of universal gas, R , constant is:....

A

 $8.314 \text{ J/mol}^\circ\text{K}$

B

 $1.38 \times 10^{-23} \text{ J/K}$

C

 $6.63 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

D

 $1.6 \times 10^{-19} \text{ C}$

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Q 7

The radiation hazards are due to

A

radioactive elements

B

non radioactive elements

C

any of a or b

D

there are no radiation hazards

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Q 8

The unit of velocity is:...

A

m

B

m s

C

 m/s

D

 m/s^2

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Q 9

The angular velocity at a particular instant is called:

A

instantaneous angular speed

B

instantaneous angular velocity

C

angular speed

D

none of these

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Q 10

What is the relationship between Power, Current and Resistance

A

$$P=I^2R$$

B

$$P=I^2R/2$$

C

$$P=IR$$

D

All of them

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Q 11 Magnetic field density outside the solenoid is

A strong

B infinite

C negligible

D none of these

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Q 12

An oscillation is called simple harmonic motion when:

A

acceleration is directly proportional to $-x$

B

acceleration is directly proportional to x

C

acceleration is directly proportional to v

D

acceleration is inversely proportional to $-x$

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Q 13

What is the fraction of atom left after 10 half life of a substance?

A

 $1/512$

B

 $1/1024$

C

 $1/256$

D

 $1/2048$

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Q 14

In a bridge type full wave rectifier, if V_m is the peak voltage across the secondary of the transformer, the maximum voltage coming across each reverse biased diode is

A

 V_m

B

 $V_m/\sqrt{2}$

C

 $2V_m$

D

 $V_m/3$

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Q 15

Two containers hold an ideal gas at the same temperature and pressure. Both containers hold the same type of gas, but container B has twice the volume of container A. What is the average translational kinetic energy per molecule in container B?

A twice that of container A

B the same as that of container A

C half that of container A

D impossible to determine

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Q 16

Four 100 W bulbs are connected in parallel across 200 V supply line. If one bulb gets fused

A

No bulb will light

B

All the four bulbs will light

C

Rest of three bulbs will light

D

Above B and C

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Q 17

Which of the following cannot determine the state of thermodynamic system?

A

P and V

B

P and T

C

T and V

D

P and R

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Q 18

What is echo of sound?

A

When sound reflects back

B

When sound gets absorbed

C

When sound penetrates into objects

D

All of them

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Q 19

What is the SI Unit of EMF?

A

Ohm

B

Ampere

C

Volts

D

newton's

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Q 20

Ampere's law is $\oint \mathbf{B} \cdot d\mathbf{l} =$

A

 μI^2

B

 μ/l

C

 μI

D

 $I\mu^2$

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Q 21

A nucleus emits an α - particle , followed by two β - particles. The final nucleus will be:

A

an isotone of the original one

B

an isotope of the original one.

C

an isobar of the original one.

D

none of these

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Q 22

Numbers of neutrons present in a nucleus is given by

A

$$N = A + Z$$

B

$$N = AZ$$

C

$$N = A - Z$$

D

$$N = Z - A$$

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Q 23

Wave nature and particle nature of photon is linked by :

A

Rest mass of photon

B

Wavelength of photon

C

Light speed

D

Momentum of photon

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Q 24

Two bodies of mass m and $4m$ moving with same kinetic energy, ratio of kinetic energy will be

A

4:1

B

1:1

C

1:4

D

1:2

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Q 25

When 2Ω , 4Ω and 6Ω resistors are connected in parallel their resultant equivalent resistance will be

A

 12Ω

B

 $11/12\Omega$

C

 $12/11\Omega$

D

Data is insufficient

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Q 26

 $E=F/q$ is the formula for?

A

Electrical field strength

B

Electrical field intensity

C

Both of them

D

None of them

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Q 27

Ripple factor of full wave rectifier is

A

1.21

B

0.6

C

0.482

D

0.9

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Q 28

The linear acceleration of a body moving in a circular path is:

A

negative

B

positive

C

constant

D

zero

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Q 29

If velocity of charged particle and magnetic field are at a fix angle not 90 then path will be

A

circular

B

straight line

C

spherical

D

helical

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Q 30

Lenz law is in accordance with conservation of

A

momentum

B

charge

C

current

D

energy

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Q 31

In mass-spring system, which of the following does not depend on the initial displacement of the spring?

A

maximum kinetic energy of the mass

B

average speed of the mass

C

total energy of the mass

D

angular frequency of the oscillation

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Q 32

If the heat absorbed is 10J and Work done is 5 J, then change in internal energy is

A

-5J

B

10J

C

15J

D

5J

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Q 33

Accelerating frame of reference which has constant acceleration is

A

constant moving car

B

moving train

C

freely falling body on earth

D

none of these

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Q 34

If we apply 100 N force on 10 kg box then its acceleration is

A

 20 m/s^2

B

 5 m/s^2

C

 10 m/s^2

D

 40 m/s^2

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Q 35

Which is the following is not a unit of angular displacement :

A

degree

B

revolution

C

meters

D

radian

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Q 36

The work done can also be calculated by:

A

gradient of tangent of the, curve of P-V graph

B

area of the curve under P-V graph

C

area of the, curve under P-T graph

D

gradient of tangent of the, curve of P-T graph

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Q 37

When a man walks on a surface horizontally with constant velocity, work done by

A

friction is zero

B

contact force is zero

C

gravity is zero

D

all of these

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Q 38

Electric intensity at the centre of uniformly distributed charge is

A

Zero

B

 Kq/r^2

C

 q/r^2

D

 q/ϵ_0

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Q 39

In step up transformer

A

$$V_s/V_p = 1$$

B

$$V_s < V_p$$

C

$$V_s = V_p$$

D

$$V_s > V_p$$

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Q 40 Atomic spectra is a _____ spectra

A continuous

B discrete

C both a) and b)

D None of these

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Q 41 The artifacts and fossils are used to estimate ages by measured ____ content

A mineral

B chemical

C radioactive

D all of these

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Q 42

The concept of work function was given by

A

Bohr

B

Einstein

C

Rutherford

D

none of these

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Q 43

For which angle between area and magnetic field, flux is maximum

A

0 degree

B

90 degree

C

45 degree

D

60 degree

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Q 44

In a rectifier, larger the value of shunt capacitor filter

A

larger the peak-to-peak value of ripple voltage

B

larger the peak current in the rectifying diode

C

longer the time that current pulse flows through the diode

D

smaller the dc voltage across the load

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Q 45

Two masses 1 g and 4 g are moving with equal kinetic energies. The ratio of the magnitudes of their linear momenta is

A

4 : 1

B

1 : 2

C

0 : 1

D

1 : 6

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Q 46

One charge enters in magnetic field of 2×10^{-2} T normally with specific charge 10^8 C/kg and velocity of 10^7 m/s. What will be the radius of circle?

A 1 m

B 0.5 m

C 5 m

D 10 m

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Q 47

Radioactive material decays by simultaneous emission of two particles with respective half-lives 1620 and 810 years. The time, in years, after which one-fourth of the material remains?

A

1080

B

2430

C

3240

D

4860

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Q 48

A stationary wave is formed in a pipe which is open at both ends. If two complete loops are formed and the wavelength of the wave is 10 cm, what is the length of the pipe?

A

15 cm

B

10 cm

C

5 cm

D

20 cm

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Q 49

A wire has a resistance of $5.5\ \Omega$ at 19°C and $21.5\ \Omega$ at 200°C . Find the temperature coefficient of resistivity(α) of the material.

A 0.016 per degree celsius

B 32 per degree celsius

C 0.018 per degree celsius

D 0.00106 per degree celsius

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Q 50

SI unit of equivalent dose is

A

gray

B

radiation

C

sievert

D

rem

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Q 51

Power transfer from primary to secondary is through flux linkage, so the primary and secondary coils should be wound in such a way that flux coupling between them is

A

min

B

constant

C

zero

D

max

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Q 52

In pair production..... are produced :

A

positron & electron

B

Photons

C

Electron & neutron

D

B & C are correct

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Q 53

100 W heater is used for 5 minutes to heat 500 g of water. What is the change in temperature of water? Specific heat capacity of water is 4.2 J/gC .

A 140C

B 40C

C 0.2 C

D 14C

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Q 54

An ionic atom which is equivalent to hydrogen atom has wavelength equal to 1/4th of hydrogen lines is

A

 He^+

B

 Li^{++}

C

 Ne^{+9}

D

 Na^{10+}

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Q 55

The energy input to an engine is 4.00 times greater than the work it performs. What fraction of the energy input is expelled to the cold reservoir?

A

0.25

B

0.75

C

1

D

impossible to determine

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Q 56

Resistivity of a wire is ___ ohm-m if 0.75 A current flows through it by applying 1.5 V potential difference, take length and cross section as 5m and $2.5 \times 10^{-7} \text{ m}^2$.

A

 1×10^{-7}

B

 2.63×10^{-8}

C

 19×10^{-8}

D

 7.85×10^{-8}

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Q 57

The large number of bundle fibers that joins the left and right cerebral hemispheres is called:

A

Broca's area

B

Lateral sulcus

C

Corpus callosum

D

thalamus

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Q 58

An individual that is homozygous-dominant for a particular trait carries?

A

3 copies of allele

B

4 copies of allele

C

5 copies of allele

D

2 copies of alleles

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Q 59

Coelom is lined by which of the following?

A

Parietal mesoderm

B

Visceral mesoderm

C

Mesoderm

D

both a and b

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Q 60

Select the phase/s of breathing:

A

Inhalation

B

Exhalation

C

Both and A and B

D

vocal waves

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Q 61

E. coli and example of enterobacteriaceae is important for causing diarrheal diseases its size is?

A

0.1-600 μm

B

100-200 nm

C

0.75-1.25 μm

D

1.1-1.5 μm

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Q 62

Which one of the following is most likely to occur in a boy during puberty?

A

He produces eggs

B

His shoulders broaden.

C

The colour of his eyes change.

D

None of these

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Q 63

What is the size of Parvovirus?

A

200 nm

B

20nm

C

30 nm

D

100 nm

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Q 64

The darker, outer portion of the brain is called:

A

White matter

B

Gray matter

C

Reflex arc

D

Medulla

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Q 65

The selection for a trait on one extreme is called which of the following?

A

natural selection

B

directional selection

C

stabilizing selection

D

all of these

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Q 66

Population growth is checked by which of the following?

A

no competition

B

no polymorphism

C

polymorphism

D

competition

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Q 67

Herpes simplex is caused by which virus?

A

adenovirus

B

Pox virus

C

influenza Virus

D

herpes virus

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Q 68

Placenta is important as its function is to:

A

exchange oxygen

B

exchange carbon dioxide

C

exchange nutrients

D

All A,B and C are correct

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Q 69

Enzymes that are involved in the control and regulation of biological process are?

A

allosteric enzymes

B

inhibitors

C

regulators

D

none of these

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Q 70

Which of the following is true about the organization of actin filaments and myosin in sarcomeres?

A

Myosin filaments appear thinner than actin filaments

B

Prior to contraction, there is no overlap between actin and myosin

C

The degree of overlap of actin and myosin affects the overall contractile strength

D

all of these

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Q 71 Lymphatic system consists of all the following except:

A lymph nodes

B blood

C lymphatic vessels

D lymph

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Q 72

Covalent modification means change in?

A

chemical properties

B

physical properties

C

bonding on amino acids

D

pH of amino acids

71

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Q 73

The response of the sympathetic nervous system is known as which of the following?

A

autonomic response

B

flight response

C

somatic response

D

reflex response

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Q 74

The muscle which moves a body part away from the midline of the body is:

A

flexor muscles

B

Extensor muscles

C

adductor muscles

D

abductor muscles

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Q 75

The rigidity of leaves and younger parts of the plants is contributed by?

A

microtubules

B

mitochondria

C

actin

D

glyoxysomes

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Q 76

A researcher is studying a population of insects and notices that 60% have red eyes, 30% have apricot eyes, 5% have white eyes, and 5% have pink eyes. Which of these eye colors would be designated the wild type?

A

red

B

white

C

pink

D

all of these

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Q 77 Asthma releases a compound named as:

A Histamine

B Heparin

C Epinephrine

D Antibodies

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Q 78

In what year did WHO declare that smallpox was completely eradicated?

A

1990

B

1980

C

2001

D

1995

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Q 79

Which was the first virus to be successfully crystalized?

A

TMV

B

Smallpox

C

Poliovirus

D

Adenovirus

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Q 80

To produce ATP (adenosine triphosphate) in muscles, creatine phosphate (CP) transfers _____ to adenosine diphosphate (ADP).

A oxygen

B adenosine

C cytosine

D phosphate

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Q 81

The bronchi divide into the lungs and make fine tubes that are termed as

A

bronchi

B

bronchioles

C

pharynx duct

D

alveolar duct

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Q 82

Which of the following is a oviparous animal?

A

pidgeon

B

elephant

C

sheep

D

humans

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Q 83

An activated enzyme made of polypeptide chain and a cofactor is?

A

substrate

B

coenzyme

C

apoenzyme

D

holoenzyme

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Q 84

What is not true about liposomes?

A

they are lipid vesicles, with their polar heads of phospholipids on the outer and hydrophobic tails on the inner side

B

they are bilayered spherical bodies

C

they can easily cross the lipid bilayer

D

they can be used in drug delivery system

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Q 85

The T-lymphocytes and B-lymphocytes are the major cells of the:

A

thymus

B

lymph nodes

C

adrenal glands

D

lymphatic vessels

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Q 86

Phagocytosis, autophagy and extracellular digestion are the functions of?

A

lysosomes

B

golgi apparatus

C

mitochondria

D

all of these

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Q 87

Inner layers of the sponges are made up of which of the following?

A

Pinacocytes

B

Choanoderm

C

Pinacoderm

D

Choanocytes

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Q 88

What are the total number of amino acids found in a hemoglobin molecule?

A

575

B

576

C

574

D

573

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Q 89

If enzyme concentration is low than substrate pH and temperature values are equal to requirement then which of the following will increase rate of reaction?

A increase in concentration of substrate

B increase in pH

C increase in temperature

D increase in concentration of enzyme

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Q 90

The thick muscular structure which is present below the pair of lungs is known as

A

pharynx

B

diaphragm

C

bronchi

D

None of these

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Q 91

How many genes control Rh blood group system?

A

1

B

2

C

3

D

4

90

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Q 92

Which of the following organs serve no apparent purpose?

A

Non vestigial organs

B

Homologous organs

C

Analogous organs

D

Vestigial organs

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Q 93

Division of labor is not seen in which of these multicellular animals?

A

Hydra

B

Euplectella

C

Blood fluke

D

Tapeworm

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Q 94

Viviparous animals are those in which?

A

Internal fertilization with external development in eggs

B

Internal fertilization and internal development followed by hatching of egg

C

External fertilization with external development

D

Internal fertilization with internal development inside female body

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Q 95

The dark reaction in photosynthesis where sugars are synthesized are called?

A

Krebs cycle

B

Calvin Cycle

C

Galvin cycle

D

glycolysis

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Q 96

The maintenance of cell shape is the role of which of the following?

A

cristae

B

microtubules

C

glyoxysome

D

intermediate filaments

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Q 97

Chlorophylls mainly absorb light of which wavelength?

A

Orange blue

B

yellow orange

C

violet red

D

Orange red

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Q 98

The human menstrual cycle generally repeats after how many days?

A

20 days

B

28 days

C

10 days

D

40 days

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Q 99

What is the most abundant protein in chloroplasts?

A

ATP synthase

B

Globulin

C

Rubisco

D

none of these

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Q 100

What are the most physiologically significant disaccharides?

A

Maltose

B

sucrose

C

lactose

D

all of these

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Q 101

Which of the following is a viviparous animal?

A

goat

B

duck

C

crocodile

D

all of these

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Q 102

In females, the progesterone and estrogen hormone is secreted by?

A ovaries

B testes

C egg

D kidneys

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Q 103

NADPH₂ provides which of the following?

A

assimilatory power

B

energized electron

C

chemical energy

D

Both A and B

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Q 104

Darwin's Theory of evolution by natural selection is based on all of the following postulates except ?

A

some individuals are more successful in surviving and reproduction than others

B

individuals within a population are variable

C

the survival and reproduction of individuals is not random

D

the survival and reproduction of individuals is random

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Q 105

_____ is associated with a number of tumors in humans

A

HSV-2

B

varicella-zoster virus

C

Oncoviruses

D

pcornavirus

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Q 106

The cell wall of Archaeobacteria does not contain which of the following?

A

Glycoproteins

B

Polysaccharides

C

proteins

D

Peptidoglycan

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Q 107

The bronchitis is of types?

A

2

B

3

C

4

D

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Q 108

Breathing and heart rate is controlled by which of these?

A

Corpus callosum

B

Hippocampus

C

Medulla

D

Thalamus

107

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Q 109

Which one of the following statements is incorrect?

A

Eggs in the ovaries ripen when they meet a sperm

B

Girls are born with thousands of eggs in their ovaries.

C

Hormones control the release of the egg from the ovary.

D

One egg is released from the ovary about every month.

108

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Q 110

When a water sample from a hot thermal vent was tested, it was found to contain a single-celled organism having a cell wall lacking a nucleus. What is its classification most likely?

A Eukarya

B fungi

C protista

D archaea

109

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Q 111

Which of the following is synthesized by free floating ribosomes of cytoplasm in humans?

A

DNA polymerase

B

salivary amylase

C

pancreatic amylase

D

DNA helicase

110

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Q 112

During lytic cycle how many phages are released from infected host cell?

A

100-300

B

100-500

C

100-200

D

100-400

111

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Q 113

Functions of enzymes include all of the following except which of the following?

A

lessening the time required for a reaction to take place

B

shifting substrates into more favorable positions in the active site

C

decreasing the activation energy of a reaction

D

shifting the equilibrium of a reaction

112

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Q 114

The last common ancestor of humans is known to be which of the following?

A

Homo neanderthalensis

B

Lemuroidea

C

Dromaeosaurus

D

Pan troglodytes

113

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Q 115

Which condition can be explained by Lamarckism?

A

How giraffes got their long neck

B

How humans lost their tail

C

How humans became bipedal

D

all of these

114

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Q 116

Choose a correct statement among following.

A

spinal reflexes has 4 elements

B

lower motor neurons has cell body in anterior column of grey matter

C

grey matter that lies transversely is lateral commissure

D

spinal cord has 3 equal parts

115

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Q 117

When a wheat grain has genotype AaBbcc, the genotype would be:

A

Light pink

B

Pink

C

Light red

D

Red

116

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Q 118

Maximum energy yield by____

A

Fats

B

Carbohydrates

C

Proteins

D

Nucleic acids

117

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Q 119

Which of the following comes under structural classification?

A

Synchondroses

B

sutures

C

Gomphosis

D

All of these

118

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Next Question 

Q 120

Viruses without nuclear envelope is called as?

A

icosahedral virus

B

naked virus

C

enveloped virus

D

bilayer virus

119

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Q 121

Flame cells are the excretory structures for which of the following?

A

Annelida

B

Coelenterates

C

Echinodermata

D

Platyhelminthes

120

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Q 122

The flap like structure found in larynx is called:

A

glottis

B

epiglottis

C

larynx

D

vocal cords

121

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Q 123

Which statement is true about noncompetitive inhibitors?

- A They bind covalently to the enzyme and disrupt the substrate from attaching
- B They bind at the active site of the enzyme
- C They actively block the enzyme from attaching to the substrate.
- D They alter the conformation of the enzyme.

122

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Q 124

Where does fertilization typically take place in the female?

A uterus

B ovaries

C eggs

D fallopian tube

123

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Q 125

Which one contain non polar covalent bond

A

 H_2

B

 Cl_2

C

 N_2 and O_2

D

all of these

124

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Q 126

As reaction starts instantaneous rate is

A

Higher than Average rate

B

Lower Than average rate

C

equal to average rate

D

None of these

125

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Q 127

Pure metal

A

Corrode slowly

B

Does not corrode easily

C

Corrode rapidly

D

None of these

126

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Q 128

Conversion of Electrical energy into chemical energy is

A

Mechanical Energy

B

Electromechanical Energy

C

Electrochemistry

D

Chemical Energy

127

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Q 129

Thermochemistry is very important to learn about

A

Chemical Equilibrium

B

Chemical Bonding

C

Heat contents of a compound

D

All of these

128

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Q 130

Ethyl alcohol is a non polar solvent but can dissolve in water because of formation of ____

A

polar bond

B

non-polar bond

C

H-bond

D

all of these

129

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Q 131 SN₂ reactions are _____?

- A Nucleophilic unimolecular addition reactions
- B Nucleophilic bimolecular substitution reactions
- C Nucleophilic bimolecular addition reactions
- D Nucleophilic unimolecular substitution reactions

130

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Q 132

Crystallites are a part of

A

Ores

B

Crystalline Solids

C

Amorphous Solids

D

None of these.

131

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Q 133

Which of the following give silver mirror test ?

A

Butanal

B

Methanal

C

Ethanal

D

All of these

132

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Next Question >

Q 134

The Relative atomic mass of copper is

A

63.345amu

B

63.455amu

C

63.55 amu

D

63.456amu

133

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Q 135

How ethanoic acid is formed from ethanol?

A

By reduction

B

By oxidation

C

By alkylation

D

By dehydration

134

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Q 136

Rate of reaction can have a value which is

A

in fraction

B

Negative

C

Positive

D

All Of these

135

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Q 137

Which of the following group is present in carboxylic acids?

A

a carboxyl group

B

a hydroxyl group

C

a hydroxyl and carboxyl group

D

a carbonyl and aldehyde group

136

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Q 138

Crystalline Solids can be converted into amorphous solids by

A

Sublimation

B

Evaporation

C

abrupt cooling

D

Hammering

137

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Q 139 1-Chloropropane and 2-Chloropropane are_____?

A Position isomers

B Chain Isomers

C Functional Group isomers

D Metamers

138

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Q 140

For higher yields of ammonia increase in temperature is replaced by

A Increasing pressure

B decreasing volume

C Using catalyst

D All of these

139

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Q 141

The hydrogen gas bubbling into one molar solution of HCl has a pressure of

A

2atm

B

780 mmHg

C

19 Psi

D

1 atm

140

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Q 142

Acetaldehyde undergoes polymerization with conc. H_2SO_4 and form ____?

A

Acetylides

B

Paraldehyde

C

Bakelite

D

Meta Acetaldehyde

141

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Q 143

The rate of reaction

A

Increases as the reaction proceeds

B

Decreases as the reaction proceeds

C

Remains unchanged

D

None of these

142

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Q 144 Addition of HCl to an propene forms_____?

A 1-chloropropane

B 2-chloropropane

C 2-chloropropane

D 3-chloropropane

143

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Next Question 

Q 145

 dx/dt is rate of reaction expression where dx is

A

Concentration

B

Change in Concentration

C

Very small change in Concentration

D

All of these

144

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Q 146

Alkanes mostly give_____?

A

Addition reactions

B

Elimination reactions

C

Reduction reactions

D

Substitution reactions

145

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Q 147

The molecules of solids possess kinetic energy

A

translational

B

vibrational

C

both A & B

D

none of these

146

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Q 148

Which of the following product is formed when Alcohol is added to acetaldehyde ?

A

Acetal

B

Ketal

C

Carboxylic acid

D

Alcohol

147

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Q 149

_____are estimated to constitute more than 99% of the visible universe

A

solids

B

liquids

C

gases

D

plasmas

148

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Q 150

Rectified spirit is converted into the absolute alcohol by_____?

A

Crystallization

B

Distillation

C

Re-distillation

D

Fractional distillation

149

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Q 151

The temperature at which one crystalline form changes to other is called _temperature

A

critical

B

absolute

C

transition

D

none of these

150

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Q 152

Disruption of the protein structure by heating, changing and by chemicals is called as _____?

A

Coagulation

B

Dehydration

C

Denaturation

D

None of these

151

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Q 153

Which one is least ionic in nature and decompose on heating

A

 LiOH

B

 NaOH

C

 KOH

D

 CsOH

152

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Q 154

The atomic ratio of isomorphs of ZnSO_4 , and NiSO_4 is

A

2:1

B

2:01:04

C

1:01:04

D

1:1

153

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Q 155

Fruity smell of organic compounds is because of _____?

A

Alcohols

B

Carboxylic acid

C

Ester

D

Acidhalids

154

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 155

Fruity smell of organic compounds is because of _____?

A

Alcohols

B

Carboxylic acid

C

Ester

D

Acidhalids

154

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Q 156 Denaturing of protein is _____ process.

A Reversible

B Irreversible

C Equilibrium

D all of these

155

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Q 157

The energy released during the formation of crystal lattice of KCl is

A

39 KJ/mol

B

49 KJ/mol

C

59 KJ/mol

D

69 KJ/mol

156

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Q 158

Structure of ice is similar to which of the following ?

A

Liquid water

B

Diamond

C

Graphite

D

Sucrose

157

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Q 159

It is very _to remove electron from a positively charged ion than a neutral atom due to increase in nuclear charge

A

easy

B

difficult

C

moderate

D

none of these

158

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Q 160

The property of the system which does not depend upon the path followed by the system is called as ____?

A

State function

B

Path function

C

Dependent function

D

Independent function

159

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Q 161

27 g of Al will react with how much mass of O_2 to produce Al_2O_3

A

8 g of oxygen

B

16 g of oxygen

C

32 g of oxygen

D

24 g of oxygen

160

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Q 162

In S_N2 reaction, Nucleophile attacks on the electrophilic carbon ?

A

From the side of leaving group

B

Opposite to leaving group

C

In front of leaving group

D

Below leaving group

161

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Q 164

According to coulomb's law ,the electrostatic forces of attraction between electron and nucleus are _____ to its square of radius

A

directly proportional

B

inversely proportional

C

equal

D

none of these

163

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Next Question >

Q 164

According to coulomb's law ,the electrostatic forces of attraction between electron and nucleus are _____ to its square of radius

A

directly proportional

B

inversely proportional

C

equal

D

none of these

163

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Q 165

In Which of the following reaction rate of reaction is not affected by increasing concentration of nucleophile ?

A

S_N2

B

E₂

C

S_N1

D

None of these

164

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Q 166

S_N1 reactions are favored by which of the following reactions?

A

Water

B

Benzene

C

Carbon Tetrachloride

D

Carbon disulphide

165

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Q 167

Atomicity is determined by number of _____ present in a molecule

A

dots

B

atoms

C

sub particles

D

electrons

166

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Q 168

Liquid crystal is discovered by

A

Friedrich Reinitzer

B

William crooks

C

Bravis

D

J J Thomson

167

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Q 169

As the force of attraction b/w the valence electron and the nucleus _____ with the increase in atomic radius, the electron affinity usually _____

- A decreases, increases
- B decreases, remains same
- C increases, decreases
- D decreases, decreases

168

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Q 170

The second bond in ethyne is:

A

Pi bond between hybridized orbitals

B

Sigma bond between hybridized orbitals

C

Pi bond between unhybridized orbitals

D

Sigma bond between unhybridized orbitals

169

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Q 171

Energy change is governed by

A

Heat

B

Work

C

Enthalpy

D

None of these

170

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Q 172

Fluorine has highest electronegativity value that is

A

3.4

B

4

C

1.2

D

2.6

171

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Q 173

All the three axes and three angles are of unequal length and none of the angle is 90°

A

cubic system

B

triclinic system

C

tetragonal system

D

monoclinic system

172

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Q 174

What is the boiling point of acetic acid ?

A

120°C

B

118°C

C

110°C

D

87°C

173

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Q 175

Which of the following products are formed from cannizzaro reaction?

A

Aldol product

B

Alcohol and carboxylate salt

C

Alcohol and carboxylic acid

D

Unsaturated reaction

174

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Q 176

By changing Pressure at equilibrium which value is changing

A

 K_c

B

 K_p

C

Equilibrium Position

D

All of these

175

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Q 177

sodium-11 has electronic configuration

A

 $[\text{He}]2s^1$

B

 $[\text{Ne}]3s^1$

C

 $[\text{Ne}]3s^2$

D

 $[\text{He}]2s^2$

176

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Q 178

Vital force theory proposed by

A

Wohler

B

Berzelius

C

lanthanides and actinides resemble in?

D

Lyll

177

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Next Question >

Q 179 18g of water contains _____atoms of hydrogen

A 6.022×10^{23}

B $3 \times 6.022 \times 10^{23}$

C $2 \times 6.022 \times 10^{23}$

D $4 \times 6.22 \times 10^{23}$

178

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Q 180

The oxidation number of Nickel in $[\text{Ni}(\text{CO})_4]$ is

A

2

B

8

C

6

D

4

179

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Comprehend key vocabulary

Q 181

We went to the President as a last _____.

A

recourse

B

resort

C

resource

D

resound

180

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Next Question >

Demonstrate correct use of articles and prepositions

Q 182 She returned after _____ hour.

A a

B an

C the

D no article

181

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct sentence.

A

i think june is the hottest month.

B

I think june is the hottest month.

C

I think June is the hottest month.

D

I think June is the hottest month.

182

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 184

Choose the correct spelling of the word

A

untill

B

until

C

untel

D

antil

183

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Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 185

should not

A

shuldn't

B

shouldn't

C

shoul'dnt

D

shouldnt'

184

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Next Question 

Comprehend key vocabulary

Q 186

Apart from cows, buffaloes are also _____ for milk production.

A

reared

B

grown

C

developed

D

produced

185

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Comprehend key vocabulary

Q 187

glared

A

frown or blaze

B

shine or sparkle

C

grin or extinguish

D

frown or eliminate

186

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Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 188

Choose the correct spelling of the word

A

lentgh

B

lenth

C

length

D

lingth

187

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Next Question >

Demonstrate correct use of articles and prepositions

Q 189

I work as _____ only English teacher at this school.

A

a

B

an

C

the

D

no article

188

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Next Question >

Comprehend key vocabulary

Q 190

We're leaving, are you ready? - Not _____. Give me 10 minutes.

A

for me

B

very much

C

very many

D

yet

189

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Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 191

Choose the correct spelling of the word

A

cafine

B

caffiene

C

caffine

D

caffeine

190

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 192

My mother, along with others, _____ worried.

A

were

B

are

C

have

D

was

191

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Next Question 

Demonstrate correct use of articles and prepositions

Q 193

After this tour you have _____ whole afternoon free to explore the city.

A

a

B

an

C

the

D

no article

192

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Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement
Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 194

Knocked sideways, the statue looked as if it would fall.

A

Knocked sideways, the statue looked

B

The statue was knocked sideways, looked

C

The statue looked knocked sideways

D

The statue, looking knocked sideways,

193

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Demonstrate control of tenses and sentence structure

Q 195

Sarah is so lazy. She never _____ to help her mum.

A

try

B

trying

C

tries

D

trys

194

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Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 196

Choose the correct sentence.

A

Beware of the upcoming storm, the weather forecaster warned on national television.

B

"Beware of the upcoming storm," the weather forecaster warned on national television.

C

"Beware of the upcoming storm," the Weather Forecaster warned on national television.

D

"Beware of the upcoming storm?" the weather forecaster warned on national television.

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 197

Choose the correct spelling of the word

A

knowledgeable

B

knowledgable

C

knowlegeable

D

knowlegable

196

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Demonstrate control of tenses and sentence structure

Q 198

Find the error?

A

It has not rained since April.

B

The jurors walked solemnly into the room.

C

Had we known, we would not have come.

D

No mistakes

197

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 199

A pack of lions ____ approaching the camp.

A

will

B

were

C

are

D

was

198

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Demonstrate control of tenses and sentence structure

Q 200

The sun _____ (shine) brightly.

A

shine

B

shined

C

shone

D

shining

199

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Fact Checking

Q 201

Fact 1 All hats have brims Fact 2 there are black hats and blue hats Fact 3 Baseball caps are hats If the above three statements are facts than which of the following statement will also be a fact I. All caps have brims II. Some baseball caps are blue III. Baseball caps have no brims

A

I only

B

II only

C

III only

D

None of them is a fact

200

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Statements and conclusions

Q 202

Statements : All fish are tortoise. No tortoise is a crocodile. Conclusions : I. No crocodile is a fish. II. No fish is a crocodile.

A Only conclusion II follows

B Either I or II follows

C Neither I nor II follows

D Both I and II follow

201

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Dependent Causes/ Independent Causes/

Q 203

Statement: There is considerable reduction in the number of people affected by water borne diseases in city A during this rainy season. The government has opened four new civil hospitals in City A in the beginning of the year.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of independent causes

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Essential parts

Q 204

What should come next to it infirmary

A

surgery

B

disease

C

patient

D

receptionist

203

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Logical Games

Q 205

How many such pairs of letters are there in the word 'HISTORICAL' which have as many letters between them in the word as they have between them in the English alphabet?

A

Four

B

Seven

C

Five

D

eight

204

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Statements and Actions

Q 206

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

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Making Judgements

Q 207

If it is possible to make only one meaningful English word from the second, the fifth, the seventh, and the eighth letters of the word BRILLIANT using each letter only once, the second letter of that word is your answer. If more than one such word can be formed, your answer is X. If no such word can be formed, your answer is Y

A

L

B

X

C

R

D

Y

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Analogies

Q 208

Secondary is to informal as honest is to

A

Frank

B

Sincere

C

Truthfull

D

Wicked

207

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Statement and Argument

Q 209

Statement Should coal engines be replaced by electric engines in trains? Arguments (I) Yes. Coal engines cause a lot of pollution. (II) Yes. Electric engines are good on performance, easy to operate, and low on maintenance. (III) No. Pakistan does not produce enough electricity to fulfill its domestic needs also.

- A All are strong
- B Only I and II are strong
- C Only II and III are strong
- D Only I and III are strong

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Complete the series

Q 210

Complete the series A2, B4, C8, D16, E?

A

32

B

34

C

36

D

38

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Submit

Complete the series

Q 210 Complete the series A2, B4, C8, D16, E?

Confirm test submission

Are you sure you want to submit the test? In case you have skipped some questions, you can attempt them now.

A

32

✓ Submit Test

B

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🔍 View Skipped Questions

✗ Cancel

C

36

D

38

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Submit

Q1

Full wave rectifier uses

A

one diode

B

two diode

C

three diodes

D

Four diodes

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Q2

The ____ reaction is an example of renewable source of energy

A

fission

B

fusion

C

both a and b

D

none of these

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Q3

The relation which explains mass and wavelength are inversely related is called

A

Maxwell

B

De Broglie

C

Einstein

D

none of these

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Q4

The value of universal gas, R, constant is:....

A

 $8.314 \text{ J/mol}^\circ\text{K}$

B

 $1.38 \times 10^{-23} \text{ J/K}$

C

 $6.63 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

D

 $1.6 \times 10^{-19} \text{ C}$

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Q5

The radiation hazards are due to

A

radioactive elements

B

non radioactive elements

C

any of a or b

D

there are no radiation hazards

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Q6

The unit of velocity is:...

A

m

B

m s

C

m / s

D

 m / s^2

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Q7

The angular velocity at a particular instant is called:

A

instantaneous angular speed

B

instantaneous angular velocity

C

angular speed

D

none of these

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Q8

What is the relationship between Power, Current and Resistance

A

$$P=I^2R$$

B

$$P=I^2R/2$$

C

$$P=IR$$

D

All of them

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Q9

An oscillation is called simple harmonic motion when:

A

acceleration is directly proportional to $-x$

B

acceleration is directly proportional to x

C

acceleration is directly proportional to v

D

acceleration is inversionally proportional to $-x$

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Q10

What is the fraction of atom left after 10 half life of a substance?

A

 $1/512$

B

 $1/1024$

C

 $1/256$

D

 $1/2048$

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Q11

In a bridge type full wave rectifier, if V_m is the peak voltage across the secondary of the transformer, the maximum voltage coming across each reverse biased diode is

A

 V_m

B

 $V_m/\sqrt{2}$

C

 $2V_m$

D

 $V_m/3$

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Q12

Two containers hold an ideal gas at the same temperature and pressure. Both containers hold the same type of gas, but container B has twice the volume of container A. What is the average translational kinetic energy per molecule in container B?

A

twice that of container A

B

the same as that of container A

C

half that of container A

D

impossible to determine

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Q13

Four 100 W bulbs are connected in parallel across 200 V supply line. If one bulb gets fused

A

No bulb will light

B

All the four bulbs will light

C

Rest of three bulbs will light

D

Above B and C

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Q14

Which of the following cannot determine the state of thermodynamic system?

A

P and V

B

P and T

C

T and V

D

P and R

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Q15

What is echo of sound?

A

When sound reflects back

B

When sound gets absorbed

C

When sound penetrates into objects

D

All of them

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Q16 Ampere's law is $\oint \mathbf{B} \cdot d\mathbf{l} =$

A μl^2

B μ/l

C μl

D $l\mu^2$

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Q17

A nucleus emits an α - particle , followed by two β - particles. The final nucleus will be:

A

an isotone of the original one

B

an isotope of the original one.

C

an isobar of the original one.

D

none of these

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Q18 Numbers of neutrons present in a nucleus is given by

A $N = A + Z$

B $N = AZ$

C $N = A - Z$

D $N = Z - A$

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Q19

Wave nature and particle nature of photon is linked by :

A

Rest mass of photon

B

Wavelength of photon

C

Light speed

D

Momentum of photon

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Q20

Two bodies of mass m and $4m$ moving with same kinetic energy, ratio of kinetic energy will be

A

4:1

B

1:1

C

1:4

D

1:2

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Q21

When 2Ω , 4Ω and 6Ω resistors are connected in parallel their resultant equivalent resistance will be

A

 12Ω

B

 $11/12\Omega$

C

 $12/11\Omega$

D

Data is insufficient

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Q22

 $E=F/q$ is the formula for?

A

Electrical field strength

B

Electrical field intensity

C

Both of them

D

None of them

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Q22

 $E=F/q$ is the formula for?

A

Electrical field strength

B

Electrical field intensity

C

Both of them

D

None of them

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Q22

 $E=F/q$ is the formula for?

A

Electrical field strength

B

Electrical field intensity

C

Both of them

D

None of them

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Q23

The linear acceleration of a body moving in a circular path is:

A

negative

B

positive

C

constant

D

zero

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Q24

If velocity of charged particle and magnetic field are at a fix angle not 90 then path will be

A

circular

B

straight line

C

spherical

D

helical

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Q25

Lenz law is in accordance with conservation of

A

momentum

B

charge

C

current

D

energy

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Q26

In mass-spring system, which of the following does not depend on the initial displacement of the spring?

A

maximum kinetic energy of the mass

B

average speed of the mass

C

total energy of the mass

D

angular frequency of the oscillation

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Q27

If the heat absorbed is 10J and Work done is 5 J, then change in internal energy is

A

-5J

B

10J

C

15J

D

5J

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Q28

Accelerating frame of reference which has constant acceleration is

A

constant moving car

B

moving train

C

freely falling body on earth

D

none of these

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Q29 If we apply 100 N force on 10 kg box then its acceleration is

A 20 m/s^2

B 5 m/s^2

C 10 m/s^2

D 40 m/s^2

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Q30

Which of the following is not a unit of angular displacement :

A

degree

B

revolution

C

meters

D

radian

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Q31

When a man walks on a surface horizontally with constant velocity, work done by

A

friction is zero

B

contact force is zero

C

gravity is zero

D

all of these

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Q32

Electric intensity at the centre of uniformly distributed charge is

A

Zero

B

 Kq/r^2

C

 q/r^2

D

 q/ϵ_0

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Q33

In step up transformer

A

 $V_s/V_p = 1$

B

 $V_s < V_p$

C

 $V_s = V_p$

D

 $V_s > V_p$

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Q34

Atomic spectra is a _____ spectra

A

continuous

B

discrete

C

both a) and b)

D

None of these

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Q35

The artifacts and fossils are used to estimate ages by measured ____ content

A

mineral

B

chemical

C

radioactive

D

all of these

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Q36

The concept of work function was given by

A

Bohr

B

Einstein

C

Rutherford

D

none of these

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Q37

For which angle between area and magnetic field, flux is maximum

A

0 degree

B

90 degree

C

45 degree

D

60 degree

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Q38

Two masses 1 g and 4 g are moving with equal kinetic energies. The ratio of the magnitudes of their linear momenta is

A

4 : 1

B

1 : 2

C

0 : 1

D

1 : 6

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Q39

Radioactive material decays by simultaneous emission of two particles with respective half-lives 1620 and 810 years. The time, in years, after which one-fourth of the material remains?

A

1080

B

2430

C

3240

D

4860

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Q40

A stationary wave is formed in a pipe which is open at both ends. If two complete loops are formed and the wavelength of the wave is 10 cm, what is the length of the pipe?

A

15 cm

B

10 cm

C

5 cm

D

20 cm

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Q41

A wire has a resistance of $5.5\ \Omega$ at 19°C and $21.5\ \Omega$ at 200°C . Find the temperature coefficient of resistivity(α) of the material.

A

0.016 per degree celsius

B

32 per degree celsius

C

0.018 per degree celsius

D

0.00106 per degree celsius

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Q42

SI unit of equivalent dose is

A

gray

B

radiation

C

sievert

D

rem

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Q43

Power transfer from primary to secondary is through flux linkage, so the primary and secondary coils should be wound in such a way that flux coupling between them is

A

min

B

constant

C

zero

D

max

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Q44

In pair production..... are produced :

A

positron & electron

B

Photons

C

Electron & neutron

D

B & C are correct

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Q45

100 W heater is used for 5 minutes to heat 500 g of water. What is the change in temperature of water?
Specific heat capacity of water is 4.2 J/gC .

A

140C

B

40C

C

0.2 C

D

14C

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Q46

An ionic atom which is equivalent to hydrogen atom has wavelength equal to 1/4th of hydrogen lines is

A

 He^+

B

 Li^{++}

C

 Ne^{+9}

D

 Na^{10+}

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Q47

The energy input to an engine is 4.00 times greater than the work it performs. What fraction of the energy input is expelled to the cold reservoir?

A

0.25

B

0.75

C

1

D

impossible to determine

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Q48

Resistivity of a wire is ___ ohm-m if 0.75 A current flows through it by applying 1.5 V potential difference, take length and cross section as 5m and $2.5 \times 10^{-7} \text{ m}^2$.

A

 1×10^{-7}

B

 2.63×10^{-8}

C

 19×10^{-8}

D

 7.85×10^{-8}

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Q49

The large number of bundle fibers that joins the left and right cerebral hemispheres is called:

A

Broca's area

B

Lateral sulcus

C

Corpus callosum

D

thalamus

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Q50

An individual that is homozygous-dominant for a particular trait carries?

A

3 copies of allele

B

4 copies of allele

C

5 copies of allele

D

2 copies of alleles

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Q51 Coelom is lined by which of the following?

A Parietal mesoderm

B Visceral mesoderm

C Mesoderm

D both a and b

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Q52

Select the phase/s of breathing:

A

Inhalation

B

Exhalation

C

Both and A and B

D

vocal waves

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Q53

Which one of the following is most likely to occur in a boy during puberty?

A

He produces eggs

B

His shoulders broaden.

C

The colour of his eyes change.

D

None of these

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Q54

What is the size of Parvovirus?

A

200 nm

B

20nm

C

30 nm

D

100 nm

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Q55

The darker, outer portion of the brain is called:

A

White matter

B

Gray matter

C

Reflex arc

D

Medulla

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Q56

The selection for a trait on one extreme is called which of the following?

A

natural selection

B

directional selection

C

stabilizing selection

D

all of these

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Q57

Population growth is checked by which of the following?

A

no competition

B

no polymorphism

C

polymorphism

D

competition

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Q58

Herpes simplex is caused by which virus?

A

adenovirus

B

Pox virus

C

influenza Virus

D

herpes virus

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Q59

Placenta is important as its function is to:

A

exchange oxygen

B

exchange carbon dioxide

C

exchange nutrients

D

All A,B and C are correct

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Q60

Which of the following is true about the organization of actin filaments and myosin in sarcomeres?

A

Myosin filaments appear thinner than actin filaments

B

Prior to contraction, there is no overlap between actin and myosin

C

The degree of overlap of actin and myosin effects the overall contractile strength

D

all of these

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Q61

Lymphatic system consists of all the following except:

A

lymph nodes

B

blood

C

lymphatic vessels

D

lymph

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Q62

Covalent modification means change in?

A

chemical properties

B

physical properties

C

bonding on amino acids

D

pH of amino acids

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Q63

The response of the sympathetic nervous system is known as which of the following?

A

autonomic response

B

flight response

C

somatic response

D

reflex response

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Q64

The muscle which moves a body part away from the midline of the body is:

A

flexor muscles

B

Extensor muscles

C

adductor muscles

D

abductor muscles

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Q65

The rigidity of leaves and younger parts of the plants is contributed by?

A

microtubules

B

mitochondria

C

actin

D

glyoxysomes

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Q66

A researcher is studying a population of insects and notices that 60% have red eyes, 30% have apricot eyes, 5% have white eyes, and 5% have pink eyes. Which of these eye colors would be designated the wild type?

A

red

B

white

C

pink

D

all of these

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Q67

In what year did WHO declare that smallpox was completely eradicated?

A

1990

B

1980

C

2001

D

1995

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Q68

Which was the first virus to be successfully crystalized?

A

TMV

B

Smallpox

C

Poliovirus

D

Adenovirus

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Q69

To produce ATP (adenosine triphosphate) in muscles, creatine phosphate (CP) transfers _____ to adenosine diphosphate (ADP).

A

oxygen

B

adenosine

C

cytosine

D

phosphate

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Q70

The bronchi divide into the lungs and make fine tubes that are termed as

A

bronchi

B

bronchioles

C

pharynx duct

D

alveolar duct

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Q71

Which of the following is a oviparous animal?

A

pidgeon

B

elephant

C

sheep

D

humans

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Q72

An activated enzyme made of polypeptide chain and a cofactor is?

A

substrate

B

coenzyme

C

apoenzyme

D

holoenzyme

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Q73

The T-lymphocytes and B-lymphocytes are the major cells of the:

A

thymus

B

lymph nodes

C

adrenal glands

D

lymphatic vessels

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Q74

Phagocytosis, autophagy and extracellular digestion are the functions of?

A

lysosomes

B

golgi apparatus

C

mitochondria

D

all of these

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Q75

Inner layers of the sponges are made up of which of the following?

A

Pinacocytes

B

Choanoderm

C

Pinacoderm

D

Choanocytes

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Q76

What are the total number of amino acids found in a hemoglobin molecule?

A

575

B

576

C

574

D

573

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Q77

If enzyme concentration is low than substrate pH and temperature values are equal to requirement then which of the following will increase rate of reaction?

A

increase in concentration of substrate

B

increase in pH

C

increase in temperature

D

increase in concentration of enzyme

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Q78

The thick muscular structure which is present below the pair of lungs is known as

A

pharynx

B

diaphragm

C

bronchi

D

None of these

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Q79

How many genes control Rh blood group system?

A

1

B

2

C

3

D

4

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Q80

Division of labor is not seen in which of these multicellular animals?

A

Hydra

B

Euplectella

C

Blood fluke

D

Tapeworm

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Q81

Viviparous animals are those in which?

A

Internal fertilization with external development in eggs

B

Internal fertilization and internal development followed by hatching of egg

C

External fertilization with external development

D

Internal fertilization with internal development inside female body

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Q82

The dark reaction in photosynthesis where sugars are synthesized are called?

A

Krebs cycle

B

Calvin Cycle

C

Galvin cycle

D

glycolysis

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Q83

The maintenance of cell shape is the role of which of the following?

A

cristae

B

microtubules

C

glyoxysome

D

intermediate filaments

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Q84 Chlorophylls mainly absorb light of which wavelength?

A Orange blue

B yellow orange

C violet red

D Orange red

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Q85

The human menstrual cycle generally repeats after how many days?

A

20 days

B

28 days

C

10 days

D

40 days

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Q86

What are the most physiologically significant disaccharides?

A

Maltose

B

sucrose

C

lactose

D

all of these

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Q87

Which of the following is a viviparous animal?

A

goat

B

duck

C

crocodile

D

all of these

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Q88

In females, the progesterone and estrogen hormone is secreted by?

A

ovaries

B

testes

C

egg

D

kidneys

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Q89

NADPH₂ provides which of the following?

A

assimilatory power

B

energized electron

C

chemical energy

D

Both A and B

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Q90

Darwin's Theory of evolution by natural selection is based on all of the following postulates except ?

A

some individuals are more successful in surviving and reproduction than others

B

individuals within a population are variable

C

the survival and reproduction of individuals is not random

D

the survival and reproduction of individuals is random

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Q91 _____ is associated with a number of tumors in humans

A HSV-2

B varicella-zoster virus

C Oncoviruses

D pcornavirus

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Q92

The cell wall of Archaeobacteria does not contain which of the following?

A

Glycoproteins

B

Polysaccharides

C

proteins

D

Peptidoglycan

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Q93

Breathing and heart rate is controlled by which of these?

A

Corpus callosum

B

Hippocampus

C

Medulla

D

Thalamus

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Q94

Which one of the following statements is incorrect?

A

Eggs in the ovaries ripen when they meet a sperm

B

Girls are born with thousands of eggs in their ovaries.

C

Hormones control the release of the egg from the ovary.

D

One egg is released from the ovary about every month.

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Q95

When a water sample from a hot thermal vent was tested, it was found to contain a single-celled organism having a cell wall lacking a nucleus. What is its classification most likely?

A

Eukarya

B

fungi

C

protista

D

archaea

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Q96

Which of the following is synthesized by free floating ribosomes of cytoplasm in humans?

A

DNA polymerase

B

salivary amylase

C

pancreatic amylase

D

DNA helicase

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Q97

During lytic cycle how many phages are released from infected host cell?

A

100-300

B

100-500

C

100-200

D

100-400

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Q98

Functions of enzymes include all of the following except which of the following?

A

lessening the time required for a reaction to take place

B

shifting substrates into more favorable positions in the active site

C

decreasing the activation energy of a reaction

D

shifting the equilibrium of a reaction

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Q99

The last common ancestor of humans is known to be which of the following?

A

Homo neanderthalensis

B

Lemuroidea

C

Dromaeosaurus

D

Pan troglodytes

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Q100

Choose a correct statement among following.

A

spinal reflexes has 4 elements

B

lower motor neurons has cell body in anterior column of grey matter

C

grey matter that lies transversely is lateral commissure

D

spinal cord has 3 equal parts

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Q101

When a wheat grain has genotype AaBbcc, the genotype would be:

A

Light pink

B

Pink

C

Light red

D

Red

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Q102

Maximum energy yield by ____

A

Fats

B

Carbohydrates

C

Proteins

D

Nucleic acids

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Q103

Which of the following comes under structural classification?

A

Synchondroses

B

sutures

C

Gomphosis

D

All of these

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Q104

Viruses without nuclear envelope is called as?

A

icosahedral virus

B

naked virus

C

enveloped virus

D

bilayer virus

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Q105

Flame cells are the excretory structures for which of the following?

A

Annelida

B

Coelenterates

C

Echinodermata

D

Platyhelminthes

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Q106

The flap like structure found in larynx is called:

A

glottis

B

epiglottis

C

larynx

D

vocal cords

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Q107

Which statement is true about noncompetitive inhibitors?

A

They bind covalently to the enzyme and disrupt the substrate from attaching

B

They bind at the active site of the enzyme

C

They actively block the enzyme from attaching to the substrate.

D

They alter the conformation of the enzyme.

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Q108

Which one contain non polar covalent bond

A

 H_2

B

 Cl_2

C

 N_2 and O_2

D

all of these

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Q109

As reaction starts instantaneous rate is

A

Higher than Average rate

B

Lower Than average rate

C

equal to average rate

D

None of these

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Q110

Pure metal

A

Corrode slowly

B

Does not corrode easily

C

Corrode rapidly

D

None of these

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Q111

Conversion of Electrical energy into chemical energy is

A

Mechanical Energy

B

Electromechanical Energy

C

Electrochemistry

D

Chemical Energy

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Q112

Thermochemistry is very important to learn about

A

Chemical Equilibrium

B

Chemical Bonding

C

Heat contents of a compound

D

All of these

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Q113

Ethyl alcohol is a non polar solvent but can dissolve in water because of formation of _

A

polar bond

B

non-polar bond

C

H-bond

D

all of these

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Q114

S_N2 reactions are _____?

A

Nucleophilic unimolecular addition reactions

B

Nucleophilic bimolecular substitution reactions

C

Nucleophilic bimolecular addition reactions

D

Nucleophilic unimolecular substitution reactions

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Q115

Which of the following give silver mirror test ?

A

Butanal

B

Methanal

C

Ethanal

D

All of these

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Q116

The Relative atomic mass of copper is

A

63.345amu

B

63.455amu

C

63.55 amu

D

63.456amu

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Q117

How ethanoic acid is formed from ethanol?

A

By reduction

B

By oxidation

C

By alkylation

D

By dehydration

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Q118

Rate of reaction can have a value which is

A

in fraction

B

Negative

C

Positive

D

All Of these

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Q119

Which of the following group is present in carboxylic acids?

A

a carboxyl group

B

a hydroxyl group

C

a hydroxyl and carboxyl group

D

a carbonyl and aldehyde group

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Q120

Crystalline Solids can be converted into amorphous solids by

A

Sublimation

B

Evaporation

C

abrupt cooling

D

Hammering

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Q121

1-Chloropropane and 2-Chloropropane are_____?

A

Position isomers

B

Chain Isomers

C

Functional Group isomers

D

Metamers

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Q122

The hydrogen gas bubbling into one molar solution of HCl has a pressure of

A

2atm

B

780 mmHg

C

19 Psi

D

1 atm

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Q123

Acetaldehyde undergoes polymerization with conc. H_2SO_4 and form ____?

A

Acetylides

B

Paraldehyde

C

Bakelite

D

Meta Acetaldehyde

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Q124

The rate of reaction

A

Increases as the reaction proceeds

B

Decreases as the reaction proceeds

C

Remains unchanged

D

None of these

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Q125

Addition of HCl to an propene forms_____?

A

1-chloropropane

B

2-chloropropane

C

2-chloropropane

D

3-chloropropane

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Q126

dx/dt is rate of reaction expression where dx is

A

Concentration

B

Change in Concentration

C

Very small change in Concentration

D

All of these

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Q127

Alkanes mostly give_____?

A

Addition reactions

B

Elimination reactions

C

Reduction reactions

D

Substitution reactions

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Q128

The molecules of solids possess kinetic energy

A

translational

B

vibrational

C

both A & B

D

none of these

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Q129

Which of the following product is formed when Alcohol is added to acetaldehyde ?

A

Acetal

B

Ketal

C

Carboxylic acid

D

Alcohol

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Q130

Rectified spirit is converted into the absolute alcohol by_____?

A

Crystallization

B

Distillation

C

Re-distillation

D

Fractional distillation

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Q131

The temperature at which one crystalline form changes to other is called _temperature

A

critical

B

absolute

C

transition

D

none of these

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Q132

Disruption of the protein structure by heating, changing and by chemicals is called as _____?

A

Coagulation

B

Dehydration

C

Denaturation

D

None of these

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Q134

The atomic ratio of isomorphs of ZnSO_4 , and NiSO_4 is

A

2:1

B

2:01:04

C

1:01:04

D

1:1

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Q135

Fruity smell of organic compounds is because of _____?

A

Alcohols

B

Carboxylic acid

C

Ester

D

Acidhalids

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Q136

Denaturing of protein is _____ process.

A

Reversible

B

Irreversible

C

Equilibrium

D

all of these

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Q137

Structure of ice is similar to which of the following ?

A

Liquid water

B

Diamond

C

Graphite

D

Sucrose

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Q138

It is very _--to remove electron from a positively charged ion than a neutral atom due to increase in nuclear charge

A

easy

B

difficult

C

moderate

D

none of these

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Q139

The property of the system which does not depend upon the path followed by the system is called as ____?

A

State function

B

Path function

C

Dependent function

D

Independent function

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Q140

27 g of Al will react with how much mass of O_2 to produce Al_2O_3

A

8 g of oxygen

B

16 g of oxygen

C

32 g of oxygen

D

24 g of oxygen

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Q141

In S_N2 reaction, Nucleophile attacks on the electrophilic carbon ?

A

From the side of leaving group

B

Opposite to leaving group

C

In front of leaving group

D

Below leaving group

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Q142

Which enzyme is used for diagnosis of Jaundice ?

A

LDH-1

B

Protease

C

Alkaline phosphatase

D

None of these

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Q143

According to coulomb's law ,the electrostatic forces of attraction between electron and nucleus are _____ to its square of radius

A

directly proportional

B

inversely proportional

C

equal

D

none of these

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Q144

SN1 reactions are favored by which of the following reactions?

A

Water

B

Benzene

C

Carbon Tetrachloride

D

Carbon disulphide

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Q145

Atomicity is determined by number of _____ present in a molecule

A

dots

B

atoms

C

sub particles

D

electrons

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Q146

Liquid crystal is discovered by

A

Friedrich Reinitzer

B

William crooks

C

Bravis

D

J J Thomson

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Q147

As the force of attraction b/w the valence electron and the nucleus _____ with the increase in atomic radius, the electron affinity usually _____

A

decreases, increases

B

decreases, remains same

C

increases, decreases

D

decreases, decreases

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Q148

The second bond in ethyne is:

A

Pi bond between hybridized orbitals

B

Sigma bond between hybridized orbitals

C

Pi bond between unhybridized orbitals

D

Sigma bond between unhybridized orbitals

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Q149

Energy change is governed by

A

Heat

B

Work

C

Enthalpy

D

None of these

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Q150

Fluorine has highest electronegativity value that is

A

3.4

B

4

C

1.2

D

2.6

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Q151

All the three axes and three angles are of unequal length and none of the angle is 90°

A

cubic system

B

triclinic system

C

tetragonal system

D

monoclinic system

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Q152

Which of the following products are formed from cannizzaro reaction?

A

Aldol product

B

Alcohol and carboxylate salt

C

Alcohol and carboxylic acid

D

Unsaturated reaction

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Q153

By changing Pressure at equilibrium which value is changing

A

 K_c

B

 K_p

C

Equilibrium Position

D

All of these

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Q154

sodium-11 has electronic configuration

A

 $[\text{He}]2s^1$

B

 $[\text{Ne}] 3s^1$

C

 $[\text{Ne}]3s^2$

D

 $[\text{He}]2s^2$

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Q155

Vital force theory proposed by

A

Wohler

B

Berzelius

C

lanthanides and actinides resemble in?

D

Lyll

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Q156

18g of water contains _____atoms of hydrogen

A

 6.022×10^{23}

B

 $3 \times 6.022 \times 10^{23}$

C

 $2 \times 6.022 \times 10^{23}$

D

 $4 \times 6.22 \times 10^{23}$

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Q157

The oxidation number of Nickel in $[\text{Ni}(\text{CO})_4]$ is

A

2

B

8

C

6

D

4

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Q158

We went to the President as a last _____.

A

recourse

B

resort

C

resource

D

resound

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Q159

She returned after _____ hour.

A

a

B

an

C

the

D

no article

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Q160

Choose the correct sentence.

A

i think june is the hottest month.

B

I think june is the hottest month.

C

I think June is the hottest month.

D

I think June is the hottest month.

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Q161

should not

A

shuldn't

B

shouldn't

C

shoul'dnt

D

shouldnt'

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Q162

Apart from cows, buffaloes are also _____ for milk production.

A

reared

B

grown

C

developed

D

produced

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Q163

glared

A

frown or blaze

B

shine or sparkle

C

grin or extinguish

D

frown or eliminate

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Q164

Choose the correct spelling of the word

A

lentgh

B

lenth

C

length

D

lingth

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Q165

I work as _____ only English teacher at this school.

A

a

B

an

C

the

D

no article

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Q166

We're leaving, are you ready? - Not _____. Give me 10 minutes.

A

for me

B

very much

C

very many

D

yet

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Q167

Choose the correct spelling of the word

A

cafine

B

caffiene

C

caffine

D

caffeine

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Q168

My mother, along with others, _____ worried.

A

were

B

are

C

have

D

was

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Q169

After this tour you have _____ whole afternoon free to explore the city.

A

a

B

an

C

the

D

no article

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Q170

Knocked sideways, the statue looked as if it would fall.

A

Knocked sideways, the statue looked

B

The statue was knocked sideways, looked

C

The statue looked knocked sideways

D

The statue, looking knocked sideways,

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Q171

Sarah is so lazy. She never _____ to help her mum.

A

try

B

trying

C

tries

D

trys

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Q172

Choose the correct sentence.

A

Beware of the upcoming storm, the weather forecaster warned on national television.

B

"Beware of the upcoming storm," the weather forecaster warned on national television.

C

"Beware of the upcoming storm," the Weather Forecaster warned on national television.

D

"Beware of the upcoming storm?" the weather forecaster warned on national television.

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Q173

Find the error?

A

It has not rained since April.

B

The jurors walked solemnly into the room.

C

Had we known, we would not have come.

D

No mistakes

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Q174

A pack of lions ____ approaching the camp.

A

will

B

were

C

are

D

was

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Q175

The sun _____ (shine) brightly.

A

shine

B

shined

C

shone

D

shining

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Q176

Fact 1 All hats have brims Fact 2 there are black hats and blue hats Fact 3 Baseball caps are hats If the above three statements are facts than which of the following statement will also be a fact I. All caps have brims II. Some baseball caps are blue III. Baseball caps have no brims

A

I only

B

II only

C

III only

D

None of them is a fact

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Q177

Statements : All fish are tortoise. No tortoise is a crocodile. Conclusions : I. No crocodile is a fish. II. No fish is a crocodile.

A

Only conclusion II follows

B

Either I or II follows

C

Neither I nor II follows

D

Both I and II follow

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Q178

Statement: There is considerable reduction in the number of people affected by water borne diseases in city A during this rainy season. The government has opened four new civil hospitals in City A in the beginning of the year.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

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Q179

What should come next to it infirmary

A

surgery

B

disease

C

patient

D

receptionist

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Q180

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q181

If it is possible to make only one meaningful English word from the second, the fifth, the seventh, and the eighth letters of the word BRILLIANT using each letter only once, the second letter of that word is your answer. If more than one such word can be formed, your answer is X. If no such word can be formed, your answer is Y

A

L

B

X

C

R

D

Y

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Q182

Secondary is to informal as honest is to

A

Frank

B

Sincere

C

Truthfull

D

Wicked

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Q183

Statement Should coal engines be replaced by electric engines in trains? Arguments (I) Yes. Coal engines cause a lot of pollution. (II) Yes. Electric engines are good on performance, easy to operate, and low on maintenance. (III) No. Pakistan does not produce enough electricity to fulfill its domestic needs also.

A

All are strong

B

Only I and II are strong

C

Only II and III are strong

D

Only I and III are strong

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Q184

Complete the series A2, B4, C8, D16, E?

A

32

B

34

C

36

D

38

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Q185

The work done can also be calculated by:

A

gradient of tangent of the, curve of P-V graph

B

area of the curve under P-V graph

C

area of the, curve under P-T graph

D

gradient of tangent of the, curve of P-T graph

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Q186

Which of the following organs serve no apparent purpose?

A

Non vestigial organs

B

Homologous organs

C

Analogous organs

D

Vestigial organs

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Q187

The energy released during the formation of crystal lattice of KCl is

A

39 KJ/mol

B

49 KJ/mol

C

59 KJ/mol

D

69 KJ/mol

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Q188

Magnetic field density outside the solenoid is

A

strong

B

infinite

C

negligible

D

none of these

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Q189

Ripple factor of full wave rectifier is

A

1.21

B

0.6

C

0.482

D

0.9

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Q191

What is the SI Unit of EMF?

A

Ohm

B

Ampere

C

Volts

D

newton's

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Q192

In a rectifier, larger the value of shunt capacitor filter

A

larger the peak-to-peak value of ripple voltage

B

larger the peak current in the rectifying diode

C

longer the time that current pulse flows through the diode

D

smaller the dc voltage across the load

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Q193

Platinum wire becomes yellow at a temperature of _____ degree C.

A

900

B

500

C

1300

D

1600

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Q194

Which of the following statements about wave motion is true:

A

waves transport energy and matter

B

waves transport energy without transporting matter

C

waves transport matter but not energy

D

waves on a rope, radio waves, infra red

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Q195

One charge enters in magnetic field of 2×10^{-2} T normally with specific charge 10^8 C/kg and velocity of 10^7 m/s. What will be the radius of circle?

A

1 m

B

0.5 m

C

5 m

D

10 m

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Q196

E. coli and example of enterobacteriaceae is important for causing diarrheal diseases its size is?

A

0.1-600 μm

B

100-200 nm

C

0.75-1.25 μm

D

1.1-1.5 μm

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Q197

Enzymes that are involved in the control and regulation of biological process are?

A

allosteric enzymes

B

inhibitors

C

regulators

D

none of these

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Q198

What is the most abundant protein in chloroplasts?

A

ATP synthase

B

Globulin

C

Rubisco

D

none of these

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Q199

Asthma releases a compound named as:

A

Histamine

B

Heparin

C

Epinephrine

D

Antibodies

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Q200

What is not true about liposomes?

A

they are lipid vesicles, with their polar heads of phospholipids on the outer and hydrophobic tails on the inner side

B

they are bilayered spherical bodies

C

they can easily cross the lipid bilayer

D

they can be used in drug delivery system

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Q201

The bronchitis is of types?

A

2

B

3

C

4

D

5

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Q202

Where does fertilization typically take place in the female?

A

uterus

B

ovaries

C

eggs

D

fallopian tube

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Q203

What is the boiling point of acetic acid ?

A

120°C

B

118°C

C

110°C

D

87°C

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Q204

Choose the correct spelling of the word

A

untill

B

until

C

untel

D

antil

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Q205

_____are estimated to constitute more than 99% of the visible universe

A

solids

B

liquids

C

gases

D

plasmas

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Q206

Crystallites are a part of

A

Ores

B

Crystalline Solids

C

Amorphous Solids

D

None of these.

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Q207

For higher yields of ammonia increase in temperature is replaced by

A

Increasing pressure

B

decreasing volume

C

Using catalyst

D

All of these

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Q208

In Which of the following reaction rate of reaction is not affected by increasing concentration of nucleophile ?

A

SN₂

B

E₂

C

SN₁

D

None of these

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Q209

Choose the correct spelling of the word

A

knowledgeable

B

knowledgable

C

knowlegeable

D

knowlegable

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Q210

How many such pairs of letters are there in the word 'HISTORICAL' which have as many letters between them in the word as they have between them in the English alphabet?

A

Four

B

Seven

C

Five

D

eight

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